

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-9. (cancelled).

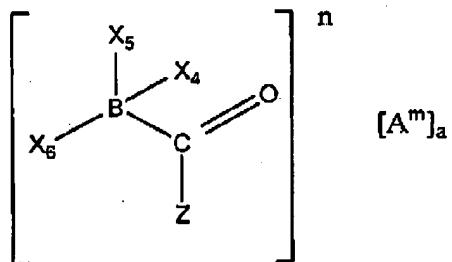
10. (currently amended) A method for preparing transition metal carbonyl complexes of using a compound, the method comprising:

preparing a transition metal carbonyl complex using a compound of the following formula as a CO source and as a reducing agent, wherein the using comprises:

releasing CO from the compound; and

reducing a metal, with which the transition metal carbonyl complex is to be formed, with a hydride substituent attached to boron (B),

wherein:



X₄ is -H;

X₅ and X₆ are substituents which are independently selected from the group consisting of -H, -NH_xR_y and R, wherein x and y are integers and x + y = 3, wherein R is bound by a carbon atom to the nitrogen or boron, respectively;

Z is -OH, -OH₂, -OR or -NHR, wherein R is a substituent that comprises a carbon atom and is bound by a carbon atom to the nitrogen or oxygen, respectively;

A is a cation selected from hydrogen and an alkali or alkaline earth metal;

n is 0, -1 or -2; and

a and m are independently 0, +1 or +2.

11. (previously presented) The method as claimed in claim 10, wherein the transition metal in the transition metal carbonyl complex is selected from the groups V-B to VIII-B metals.

12. (previously presented) The method as claimed in claim 11, wherein the transition metal in the transition metal carbonyl complex is selected from the group consisting of Vanadium (V), Chromium (Cr), Molybdenum (Mo), Tungsten (W), Manganese (Mn), Technetium (Tc), Rhenium (Re), Iron (Fe), Ruthenium, (Ru), Osmium (Os), Cobalt (Co), Rhodium (Rh), Iridium (Ir) and Nickel (Ni).

13-15. (cancelled).

16. (currently amended) A method for the preparation of berane carbonateboranocarbonate, comprising the steps of:

- a) reacting $\text{BH}_3\text{-THF}$ or an adduct thereof in THF or a mixture of THF and an organic aprotic solvent with CO to generate H_3BCO ;
- b) passing the H_3BCO thus generated through a cold solution of a hydroxide with a mono or dicationic counter ion and a lower alkyl C_{1-5} alcohol; and
- c) after a suitable reaction time, heating the alcoholic solution to precipitate the berane carbonateboranocarbonate.

17. (previously presented) The method of claim 16, wherein the adduct is $\text{H}_3\text{B}(\text{Et}_2\text{O})$.

18. (previously presented) The method of claim 16, wherein the hydroxide is selected from the group consisting of potassium hydroxide, sodium hydroxide and tetraalkyl ammonium hydroxide.

19. (previously presented) The method of claim 16, wherein the alcohol is selected from the group consisting of methanol, ethanol and isopropanol.

20-24. (cancelled).

25. (previously presented) The method of claim 10, further comprising making a solution comprising the compound and a protic solvent.

26. (previously presented) The method of claim 25, further comprising heating the solution, wherein the heating of the solution comprises releasing carbon monoxide.

27. (previously presented) The method of claim 10, further comprising making a solution comprising the compound and a Lewis acid.

28. (previously presented) The method of claim 27, further comprising heating the solution, wherein the heating of the solution comprises releasing carbon monoxide.

29. (previously presented) The method of claim 10, further comprising making a solution comprising the compound and water.

30. (previously presented) The method of claim 29, further comprising heating the solution, wherein the heating of the solution comprises releasing carbon monoxide.

31. (previously presented) The method of claim 10, wherein n is -1 or -2, m is +1 or +2, and m+n is equal to zero.

32. (previously presented) The method of claim 10, wherein $(a \times m) + n$ is equal to zero.

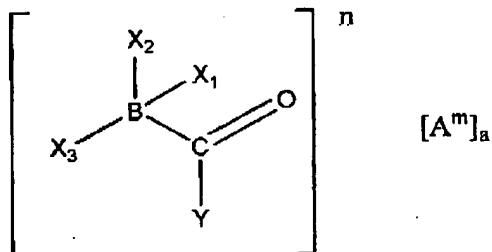
33. (previously presented) The method of claim 10, wherein at least one of X_5 and X_6 is -H.

34. (currently amended) A method for preparing transition metal carbonyl complexes of using a compound, the method comprising:

preparing a transition metal carbonyl complex using a compound of the following formula as a CO source and as a reducing agent, wherein the using comprises:

releasing CO from the compound; and

reducing a metal, with which the transition metal carbonyl complex is to be formed, with a hydride substituent attached to boron (B),



wherein X_1 , X_2 and X_3 are the same or different and are selected from the group consisting of Lewis bases and hydrides, and Y is a sigma donating group.

35. (previously presented) The method of claim 34, further comprising mixing the compound with a protic solvent or a Lewis acid.

36. (previously presented) The method of claim 34, further comprising making an aqueous solution comprising the compound.

37. (previously presented) The method of claim 36, wherein:

A is a cation selected from the group consisting of hydrogen, alkalis and alkaline earth metals;

n is 0, -1 or -2;

m is 0, +1 or +2;

a is 0, +1 or +2; and

$(a \times m) + n$ is equal to zero.

38. (previously presented) The method of claim 36, wherein the compound is:
a borane carbonate compound in which X_1 , X_2 and X_3 are -H, and Y is -OH₂;
a corresponding salts of the mono- or dideprotonated borane carbonate $[H_3BCO_2]^{2-}$;
a borane amino acid in which X_1 is NH₃, X_2 and X_3 are -H, and Y is -OH; or
a corresponding salt of the monodeprotonated ammine borane carbonate $[(NH_3)H_2BCO_2]$.

39. (previously presented) The method of claim 36, wherein the compound is an alkylated borane amino acid in which X_1 is -NH_xR_y with x+y=3, wherein R is alkyl or aryl and is bound by a carbon atom to the nitrogen, X_2 and X_3 are -H, and Y is -OH.

40. (previously presented) The method of claim 36, wherein X_1 is an organic substituent bound by a carbon atom to boron, X_2 and X_3 are -H, and Y is -OH₂.

41. (previously presented) The method of claim 36, wherein the compound is selected from the group consisting of:

boranocarbonate derivatives selected from the group consisting of [H₃B-COOH₂]⁻, [H₃B-COOH]M, [H₃B-COO]M₂ and Na[H₃B-COOCH₃], wherein M is an alkali cation;

boranocarbonates selected from the group consisting of Na[H₃BCONHCH₃] and M[H₃B-CONH₂]⁻, wherein M is an alkali cation;

ammine-boranocarbonates selected from the group consisting of [H₃N-BH₂-COOH]⁻, [H₃N-BH₂-COO]Li, [(CH₃)₃N-BH₂-COOH]⁻, [(CH₃)H₂N-BH₂-COOH]⁻, [(CH₃)H₂N-BH₂-COO]Li and [(CH₃)H₂N-BH₂-COOCH₃]; and

ammine-boranocarbarnates selected from the group consisting of [H₃N-BH₂-CONH₂]⁻ and [(CH₃)₂HN-BH₂-CONHC₂H₅].

42. (new) The method of claim 10, wherein R is alkyl or aryl.